

*real-work opportunities*

# Process and Control Technology

at the  
Savannah River Site



*a member of the Westinghouse Savannah River Company Team*

At SRS, the Process and Control Technology (P&CT) Department offers full service computer support for engineering, scientific, process control, manufacturing, security, personnel accountability and safety.

We use technology such as process simulation, process modeling, graphical visualization, user interfacing, process control and manufacturing computer applications.

P&CT supports chemical and nuclear facilities through the use of computer technology including database administration, computer standards, system testing and validation, system management, computer security, configuration management and software quality assurance.

We also develop and maintain computer software and networks, advanced computing technology, client server technology, software conversion and certification, object-oriented programming, laboratory management systems, distributed control systems and programmable logic controllers.

In the Process and Control Technology Department, a new engineer is assigned to a mentor to learn the general rules, practices, policies and administrative systems to be able to request and accomplish work safely.

A typical P&CT assignment is working with Distributed Control Systems and Programmable Logical Controllers to operate chemical and nuclear facilities. Duties include using simulators and modeling techniques for recommendation for facility improvements. The engineer is expected to have comprehensive knowledge of the hardware and software systems, as well as the process parameters being controlled. They recognize upset conditions, take corrective actions, and provide performance tuning. The engineers maintain the configuration of the control system and are the design agents for temporary and permanent changes.

Another assignment is Manufacturing Systems Computer Engineering. This function applies

engineering and operations knowledge in conjunction with software engineering techniques to construct systems responsive to customer specifications. Manufacturing Systems are those that track, monitor, and handle information about process nuclear material, nuclear waste, and environmental data. Manufacturing Systems computer engineers perform system analysis so that information is presented in a way to aid decision making. The engineers maintain the configuration of the Manufacturing Systems and are the design agents for temporary and permanent changes.

*For more information about the Process and Control Technology Department, please contact Dr. Kenneth F. Cooper, Manager of P&CT, at (803) 952-8359, or by e-mail at [kenneth.cooper@srs.gov](mailto:kenneth.cooper@srs.gov).*

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